

AMENDMENTS TO THE SPECIFICATION

Please amend the second full paragraph on page 6, continuing onto page 7, of the application as follows:

In conjunction with the two ellipsoidal surface portions, this ensures that light from the source to the detector within the limited range of angles all travels the same path length. This fact can be proven according to the geometry, but can be seen empirically with reference to Figure 3. Light from the source ~~[[3]]~~₆ is reflected from a surface portion 9 being shaped as a portion of all ellipsoid "a". This light is focused toward a point 30, but reflected back from a planar reflective portion of the inner surface of the wall 5 and focused to a planar reflective region 12. The reflective region 12 is effectively at an image of the plane 31 containing the focus point 30 of the ellipsoids "a" and "b". This "folded" arrangement reduces the height of the sensor by roughly half whilst maintaining the path length. From the focus point 32 light is reflected via a further reflective region of wall 5 to a second reflective portion 10 of ellipsoidal shape defined by ellipsoid "b" and ~~focussed~~ focused to the detector shown schematically at 7. Thus, a comparatively long path length is achieved with in a housing of small dimension. In ~~particulr~~ particular, the path length for light from the source to the detector is substantially constant and unwanted reflections are avoided.